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**SEP 16 2005**

PTO/SB/08A (08-03)

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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				APPLICATION NUMBER	10/706,537
				FILING DATE	11/12/2003
				FIRST NAMED INVENTOR	Sreenivasan et al.
				Group Art Unit	2812
				Examiner Name	Stevenson, Andre C.
				Attorney Docket Number	P110-52-03
Sheet	1	of	2		

[illegible]

Examiner Signature	<i>Indie Stevens</i>	Date Considered	11/21/06
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\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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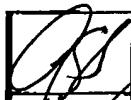
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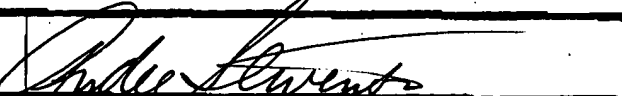
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				Group Art Unit	2812
				Examiner Name	Stevenson, Andre C.
				Attorney Docket Number	P110-52-03
Sheet	2	of	2		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>

	C2	THOMPSON ET AL., Fabrication of Step and Flash Imprint Lithography Templates Using Commercial Mask Processes, SPIE Microlithography Conference 2/1/2003	

Examiner Signature		Date Considered	11/27/06
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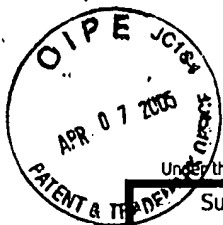
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				<b>FILING DATE</b>	11/12/2003
				<b>FIRST NAMED INVENTOR</b>	
<i>(use as many sheets as necessary)</i>				<b>Group Art Unit</b>	2812
				<b>Examiner Name</b>	
<b>Sheet</b>	1	of	8	<b>Attorney Docket Number</b>	P110-52-03

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			

98	A1	4,731,155		Napoli et al.	3/15/1988	
	A2	5,425,848		Haisma et al.	6/20/1995	
	A3	5,772,905		Chou	6/30/1998	
	A4	6,309,580	B1	Chou	10/30/2001	
	A5	6,334,960	B1	Willson et al.	1/1/2002	
	A6	6,391,217	B2	Schaffer et al.	5/21/2002	
	A7	6,517,977	B2	Resnick et al.	2/11/2003	
	A8	6,696,220	B2	Bailey et al.	2/24/2004	
	A9	2004/0007799	A1	Choi et al.	1/15/2004	
	A10	2004/0021254	A1	Sreenivasan et al.	2/5/2004	
	A11	2004/0021866	A1	Watts et al.	2/5/2004	
	A12	2004/0022888	A1	Sreenivasan et al.	2/5/2004	
	A13	10/687,519		Nguyen et al.	10/16/2003	
	A14	2002/0177319	A1	Chou	11/28/2002	
	A15	2003/0205657	A1	Voisin	11/6/2003	
	A16	6,713,238	B1	Chou et al.	3/30/2004	
	A17	2004/0008334	A1	Sreenivasan et al.	1/15/2004	
	A18	2004/0009673	A1	Sreenivasan et al.	1/15/2004	

<b>Examiner Signature</b>	<i>Andre Stevenson</i>	<b>Date Considered</b>	11/29/06
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STATEMENT BY APPLICANT**

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Sheet 2 of 8

**Complete if Known**

<b>APPLICATION NUMBER</b>	10/706,537
<b>FILING DATE</b>	11/12/2003
<b>FIRST NAMED INVENTOR</b>	Sreenivasan et al.
<b>Group Art Unit</b>	2812
<b>Examiner Name</b>	Stevenson, Andre C.
<b>Attorney Docket Number</b>	P110-52-03

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		Number	Kind Code <sup>2</sup> (if known)			

AB	A19	2004/0124566	A1	Sreenivasan et al.	7/1/2004	
	A20	2004/0163563	A1	Sreenivasan et al.	8/26/2004	
	A21	2003/0113638	A1	Mancini et al.	6/19/2003	
	A22	6,646,662	B1	Nebashi et al.	11/11/2003	
	A23	6,776,094	B1	Whitesides et al.	8/17/2004	
	A24	6,518,189	B1	Chou	2/11/2003	
	A25	2002/0132482	A1	Chou	9/19/2002	
	A26	2002/0167117	A1	Chou	11/14/2002	
	A27	6,482,742	B1	Chou	11/19/2002	
	A28	2003/0080471	A1	Chou	5/1/2003	
	A29	2004/0036201	A1	Chou et al.	2/26/2004	
	A30	2004/0192041	A1	Jeong et al.	9/30/2004	
	A31	6,828,244	B2	Chou	12/7/2004	
	A32	6,809,356	B2	Chou	10/26/2004	
	A33	2004/0197843	A1	Chou et al.	10/7/2004	
	A34	2004/0156108	A1	Chou et al.	8/12/2004	
	A35	2004/0137734	A1	Chou et al.	7/15/2004	
	A36	2004/0131718	A1	Chou et al.	7/8/2004	

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CS	A37	2004/0118809	A1	Chou et al.	6/24/2004	
	A38	2004/0046288	A1	Chou	3/11/2004	
	A39	2003/0080472	A1	Chou	5/1/2003	
	A40	2003/0034329	A1	Chou	2/20/2003	
	A41	2002/0042027	A1	Chou et al.	4/11/2002	
	A42	2004/0168586	A1	Bailey et al.	9/2/2004	
	A43	10/666,527		Bailey et al.	9/18/2003	
	A44	6,580,172	B2	Mancini et al.	6/17/2003	
	A45	4,722,878		Watakabe et al.	2/2/1988	
	A46	2002/0175298	A1	Moniwa et al.	11/28/2002	
	A47	10/714,088		Sreenivasan et al.	11/14/2003	
	A48	10/670,980		Sreenivasan et al.	9/25/2003	
	A49	10/827,118		Watts et al.	4/19/2004	
	A50	10/833,240		Watts et al.	4/27/2004	
	A51	10/895,214		Voison	7/20/2004	
	A52	10/917,761		McMackin et al.	8/13/2004	
	A53	11/051,941		McMackin et al.	2/4/2005	
	A54	4,512,848		Deckman et al.	4/23/1985	

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A55	6,517,995	B1	Jacobenson et al.	2/11/2003
A56	2004/0110856	A1	Young et al.	6/10/2004
A57	6,716,754	B2	Hofmann et al.	4/6/2004
A58	2002/0135099	A1	Robinson et al.	9/26/2002
A59	5,028,366		Harakal et al.	7/2/1991
A60	5,601,641		Stephens	2/11/1997
A61	5,849,209		Kindt-Larsen et al.	12/15/1998
A62	5,849,222		Jen et al.	12/15/1998
A63	2005/0051698	A1	Sreenivasan et al.	3/10/2005

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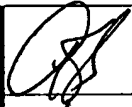
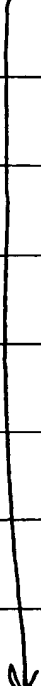
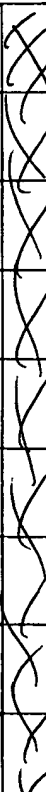
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Sheet      6      of      8				<b>Attorney Docket Number</b>	P110-52-03

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>

 	A74	Chou, Nanoimprint Lithography and Lithographically Induced Self-Assembly, MRS Bulletin, pp. 512 - 517, 7/1/2001	
	A75	Choi et al., Design of Orientation Stages for Step and Flash Imprint Lithography, Precision Engineering, pp. 192 - 199, 1/1/2001	
	A76	Colburn et al., Step and Flash Imprint Lithography for sub-100 nm Patterning, Proceedings of SPIE Vol. 3997, pp. 453 - 457, 1/1/2000	
	A77	Chou et al., Imprint Lithography with 25-Nanometer Resolution, Science Vol. 272, pp. 85 - 87, 4/5/1996	
	A78	Chou et al., Imprint Lithography with Sub-10 nm Feature Size and High Throughput, Microelectronic Engineering 35, pp. 237 - 240, 1/1/1997	
	A79	Haisma et al., Mold-assisted Nanolithography: A Process for Reliable Pattern Replication, J. Vac. Sci. Technol. B, pp 4124 - 4128, 11/1/1996	
	A80	Chou et al., Imprint of Sub-25 nm Vias and Trenches in Polymers, Appl. Phys. Lett. 67 (21), 11/20/1995	
	A81	Johnson et al., Advances in Step and Flash Imprint Lithography, SPIE Microlithography Conference, 2/23/2003	
	A82	Chou et al., Lithographically Induced Self-assembly of Periodic Polymer Micropillar Arrays, J. Vac. Sci. Technol. B 17 (6), pp. 3197 - 3202, 11/1/1999	

Examiner Signature		Date Considered	11/27/06
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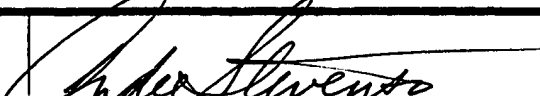
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<b>APPLICATION NUMBER</b>	10/706,537
				<b>FILING DATE</b>	11/12/2003
				<b>FIRST NAMED INVENTOR</b>	Sreenivasan et al.
				<b>Group Art Unit</b>	2812
				<b>Examiner Name</b>	Stevenson, Andre C.
<b>Sheet</b>	7	of	8	<b>Attorney Docket Number</b>	P110-52-03

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	A83	Colburn et al., Step and Flash Imprint Lithography: A New Approach to High-Resolution Patterning, Proc. Of SPIE, vol. 3676, 3/1/1999	X
	A84	Heidari, Nanoimprint Lithography at the 6 in. Wafer Scale, J. Vac. Sci. Technol. B 18(6), pp. 3557 - 3560, 11/1/2000	X
	A85	Translation of Japanese Patent 02-92603	X
	A86	Translation of Japanese Patent 02-24848	X
	A87	Chou et al., Ultrafast and Direct Imprint of Nanostructures in Silicon, Nature, Vol. 417, (June 2002), pp. 835-837, 6/1/2002	X
	A88	Chou et al., Nanoimprint Lithography, Journal of Vacuum Science Technology B 14(16), pp. 4129-4133, 11/1/1996	X
	A89	Colburn et al., Development and Advantages of Step-and-Flash Lithography, Solid State Technology, 7/1/2001	X
	A90	Resnick et al., High Resolution Templates for Step and Flash Imprint Lithography, Journal of Microlithography, Microfabrication, and Microsystems. Vol 1. No. 3., 10/1/2002	X
	A91	Colburn et al., Characterization and Modeling of Volumetric and Mechanical Properties for Step and Flash Imprint Lithography Photopolymers, Journal of Vacuum Science Technology. Vol b. 19(6), 11/1/2001	X

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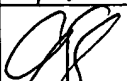


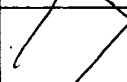
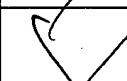
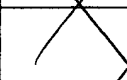
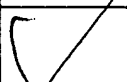
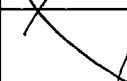
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				<b>FIRST NAMED INVENTOR</b>	Sreenivasan et al.
				Group Art Unit	2812
				Examiner Name	Stevenson, Andre C.
Sheet      8      of      8				Attorney Docket Number	P110-52-03

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	A92	Bailey et al., Step and Flash Imprint Lithography: Template Surface Treatment and Defect Analysis, Journal of Vacuum Science, B 19(6), pp. 2806-2810, 11/1/2001
	A93	Bailey et al., Step and Flash Imprint Lithography: Template Surface Treatment and Defect Analysis, Journal of Vacuum Science, B 18(6), pp. 3572-3577, 11/1/2000
	A94	Schneider et al., Stripes of Partially Fluorinated Alkyl Chains: Dipolar Langmuir Monolayers
		
		
		
		
		
		

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Sheet	1	of	3	APPLICATION NUMBER	10/706,537
				FILING DATE	11/12/2003
				FIRST NAMED INVENTOR	Sreenivasan et al.
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				Attorney Docket Number	P110-52-03

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		Number	Kind Code <sup>2</sup> (if known)			

	B1	5,206,983		Guckel et al.	5/4/1993	
	B2	5,669,303		Maracas et al.	9/23/1997	
	B3	6,117,708		Wensel	9/12/2000	
	B4	6,316,290	B1	Wensel	11/13/2001	
	B5	6,355,198	B1	Kim et al.	3/12/2002	
	B6	6,387,787	B1	Mancini et al.	5/14/2002	
	B7	6,190,929	B1	Wang et al.	2/20/2001	
	B8	2005/0064344	A1	Bailey et al.	3/24/2005	
	B9	2005/0087379	A1	Sreenivasan et al.	3/31/2005	
	B10	2004/0250945	A1	Zheng et al.	12/16/2004	
	B11	5,477,058		Sato	12/19/1995	
	B12	2005/0084804	A1	Truskett et al.	4/21/2005	
	B13	2005/0037143	A1	Chou et al.	2/17/2005	
	B14	2005/0100830	A1	Xu et al.	5/12/2005	
	B15	6,900,881		Sreenivasan et al.	5/31/2005	
	B16	6,890,888	B2	Mancini et al.	5/10/2005	
	B17	6,908,861	B2	Sreenivasan et al.	6/21/2005	

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				FIRST NAMED INVENTOR	Sreenivasan et al.
				Group Art Unit	2812
				Examiner Name	Stevenson, Andre C.
				Attorney Docket Number	P110-52-03
Sheet	3	of	3		

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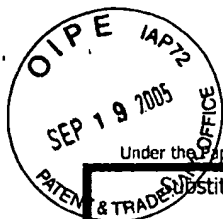
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CB	D1	4,959,252		Bonnebat et al.	9/25/1990	
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	D17	5,820,769		Chou	10/13/1998	

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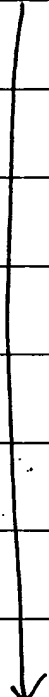
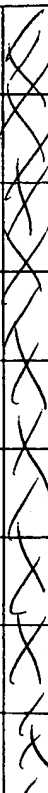
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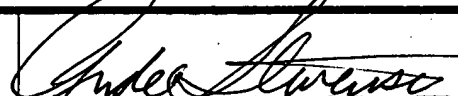


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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				APPLICATION NUMBER	10/706,537
				FILING DATE	11/12/2003
				FIRST NAMED INVENTOR	Sreenivasan et al.
				Group Art Unit	2812
				Examiner Name	Stevenson, Andre C.
Sheet	4	of	6	Attorney Docket Number	P110-52-03

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>

 	D29	FEYNMAN, There's Plenty of Room at the Bottom, 12/1/1959	
	D30	XIA ET AL., Soft Lithography, Angew. Chem. Int. Ed., pp. 550 - 575 1/1/1998	
	D31	KRUG ET AL., Fine Patterning of Thin Sol-gel Films, Journal of Non-Crystalline Solids 147 & 148, pp. 447 - 450 1/1/1992	
	D32	NGUYEN, Asymmetric Fluid-Structure Dynamics in Nanoscale Imprint Lithography, The University of Texas at Austin, pp. 1 - 111 8/1/2001	
	D33	Abstract of Japanese Patent 02-92603, 8/12/2004	
	D34	Abstract of Japanese Patent 02-24848, 1/26/1990	
	D35	SOWAH, Diamond used to Break the Mould, Retrieved 9/2/2003 from URL: <a href="http://www.electronicetimes.com/story/OEG20020918S0003">http://www.electronicetimes.com/story/OEG20020918S0003</a> 9/18/2002	
	D36	Abstract of Japanese Patent 61-040845, 2/27/1986	
	D37	Abstract of Japanese Patent 02-248480, 10/4/1990	

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				Examiner Name	Stevenson, Andre C.
Sheet 5 of 6				Attorney Docket Number	P110-52-03

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	D38	Abstract of Japanese Patent 3-090345, 4/16/1991	
	D39	Abstract of Japanese Patent 09-278490, 10/28/1997	
	D40	Abstract of Japanese Patent 61-040845, 2/27/1986	
	D41	Abstract of Japanese Patent 02-248480, 10/4/1990	
	D42	GEHOSKI ET AL., Indium Tin Oxide Template Development for Step and Flash Imprint Lithography, SPIE Microlithography Conference 2/1/2005	
	D43	DAUKSHER ET AL., Repair of Step and Flash Imprint Lithography Templates, J. Vac. Sci. Technol. B 22(6), pp. 3306-3311 11/1/2004	
	D44	NORDQUIST ET AL., Image Placement Issues for ITO-based Step and Flash Imprint Lithography Templates, J. Vac. Sci. Technol. B, pp. 695-701 3/1/2004	
	D45	DAUKSHER ET AL., Step and Flash Imprint Lithography Template Characterization, from an Etch Perspective, J. Vac. Sci. Technol. B 21(6), pp. 2771-2776 11/1/2003	
	D46	RESNICK ET AL., Imprint Lithography: Lab Curiosity or the Real NGL?, SPIE Microlithography Conference 2/1/2003	

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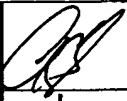

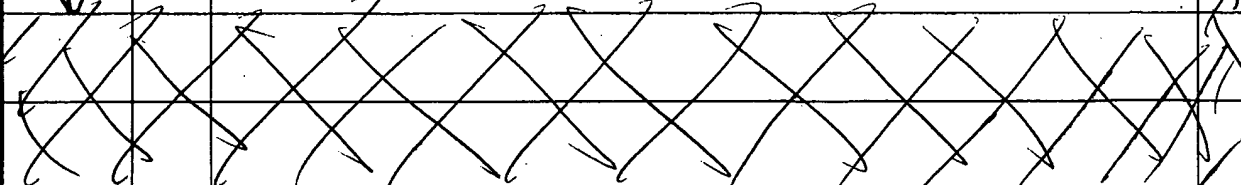
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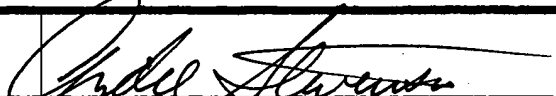
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	D47	MANCINI ET AL., Analysis of Critical Dimension Uniformity for Step and Flash Imprint Lithography, SPIE Microlithography Conference 2/1/2003	
	D48	MANCINI ET AL., Hydrogen Silsesquioxane for Direct Electron-Beam Patterning of Step and Flash Imprint Lithography Templates, J. Vac. Sci. Technol. B 20(6), pp. 2896-2901 11/1/2002	
	D49	DAUKSHER ET AL., Characterization of and Imprint Results Using Indium Tin Oxide-Based Step and Flash Imprint Lithography Templates, J. Vac. Sci. Technol. B 20(6), pp. 2857-2861 11/1/2002	
	D50	NORDQUIST ET AL., Critical Dimension and Image Placement Issues for Step and Flash Imprint Lithography Templates, 22nd Annual BACUS Symposium on Photomask Technology, Monterey, CA 9/1/2002	
	D51	BAILEY ET AL., Template Fabrication Schemes for Step and Flash Imprint Lithography, Microelectronic Engineering, 61-62, pp. 461-467 1/1/2002	
	D52	RESNICK ET AL., High Resolution Templates for Step and Flash Imprint Lithography, SPIE Microlithography Conference 2/1/2002	
	D53	RESNICK ET AL., New Methods for Fabricating Step and Flash Imprint Lithography Templates, NIST-SPIE Conference on Nanotechnology 9/1/2001	
			

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